IN THE CLAIMS

1. (Currently amended) An area assigning method in a storage management system for managing a storage device for storing data, comprising the steps of:

holding management information for managing the storage device, area assignment information for managing an area assigning state of the storage device, and history information for managing a history of area assuring and release;

obtaining transition of a used amount of a storage by referring to the history information upon receiving pursuant to an assignment request for temporarily using an area of the storage device in association with designation of an area size and a using period, calculating the size of a constantly-assigned area of the storage device previously requested, by referring to the history information;

determining, based on the obtained transition of the used amount of the storage calculated size of the constantly-assigned area and on the designated area size, whether or not there is sufficient storage device capacity for the constantly-assigned area and for the requested area of the storage device requested for temporary use, can be assigned at for the using period which is requested for assignment; and

assigning [[a]] the area size designated by the request, the using period, and the area of the storage device having the area size, when the area of the storage device can be assigned as a result of the determination.

2. (Currently amended) The area assigning method according to Claim 1, further comprising the steps of:

obtaining a necessary area size and a necessary using period upon executing processing for temporarily using the storage;

requesting assignment of the area which is temporarily used for storage management; and

executing processing by using the area assigned for the storage management and requesting release of the <u>assigned</u> area which is not necessary after completing the processing.

3. (Currently amended) The area assigning method according to Claim 1, further comprising the steps of:

obtaining an execution time of reediting processing and a size of a work area necessary for reediting when a database management system executes the reediting processing;

requesting the assignment of the area which is temporarily used for the storage management; and

executing the reediting, as a work area, the area assigned for the storage management and requesting release of the work area which is not necessary when the reediting completes.

4. (Currently amended) The area assigning method according to Claim 1, wherein in the step of obtaining the transition calculating the size of the constantly-assigned area, when the storage management system receives a request for an assignment reservation for temporarily using the area in association with the designation of a using time, the area size, and the using period, the transition of the used amount of the storage is obtained size of the constantly-assigned area is calculated based on an area reservation state and the history information,

in the determining step, it is determined whether or not a designated area can be assigned at a designated period from a designated time in accordance with the transition of the used amount of the storage calculated size of the constantly-assigned area, and

in the area assigning step, when a request <u>is received</u> for assigning a reserved area at a requested time, the

designated period and the reserved area are assigned for the request source.

5. (Currently amended) The area assigning method according to Claim 4, further comprising the steps of:

obtaining an execution date, a necessary area size, and an area necessary a necessary period upon planning the execution of processing which temporarily uses the storage;

a step of requesting the assignment reservation of the area which is temporarily used for the storage management;

a step of requesting the assignment of the reserved area for the storage management at the execution date; and

a step of executing the processing by using the area assigned for the storage management and requesting the release of the area which is not necessary after completing the processing.

6. (Currently amended) The area assigning method according to Claim 4, further comprising the steps of:

scheduling execution of reediting processing and obtaining a scheduled date, a size of a work area necessary for the reediting processing, and execution time of the reediting processing by the database management system;

requesting the assignment reservation of the area which is temporarily used for the storage management;

requesting the assignment of the reserved area on the scheduled date of executing the reediting; and

executing the reediting of the assigned area for the storage management as the work area and requesting the release of the <u>assigned</u> area which is not necessary upon completing the reediting,

wherein the reediting processing is executed by a database management system.

- 7. (Original) The area assigning method according to Claim 4, wherein the storage management system returns reservation information and area assignment information to a request source upon receiving the request for inquiring the reservation state.
- 8. (Original) The area assigning method according to Claim 5, further comprising the steps of:

requesting the assignment reservation of the area which is temporarily used for the storage management and obtaining a reservation date based on the reservation state when the area

is not reserved on the requested date and then an inquiry of the reservation state is requested; and

setting the obtained date as the requested date and requesting the assignment reservation of the area which is temporarily used for the storage management.

9. (Original) The area assigning method according to Claim 6, further comprising the steps of:

requesting the assignment reservation of the work area necessary for editing, and when the area is not reserved on the reediting scheduled date, requesting an inquiry of the reservation state by a database management system;

obtaining the reservation date based on the reservation state and then changing a reediting execution scheduled date to the obtained date; and

requesting the assignment reservation of the work area necessary for reediting on the changed reediting execution scheduled date.

10. (Currently amended) A reediting processing method in a storage system using a database formed on a storage device in accordance with a request from application, the database reediting processing method comprising the steps of:

holding management information which manages the storage device, area assignment information which manages an area assignment state of the storage device, and history information which manages a history of area assuring and release;

obtaining a size of a work area necessary for reediting and an execution time of the reediting processing upon executing the reediting processing of a database by a database management system;

designating an area size and a using period, and requesting assignment for temporary use of an area to the storage management system;

when the assignment <u>for temporary use</u> is requested,

determining whether or not <u>an area of</u> the requested area <u>size</u>

can be assigned by calculation from the held history

information;

assigning an area with the designated size at the designated period when the area can be assigned as a result of the determination; and

setting, as the work area, the area assigned by the storage management system and executing the reediting of the database using the work area.

11. (Currently amended) The database reediting processing method according to Claim 10, further comprising the steps of:

requesting, to the storage management system, release of [[an]] the work area which is unnecessary after executing the reediting processing; and

recording information on the release to the history information upon releasing the work area.

12. (Currently amended) An area management method in a storage management system for managing a storage device for storing data, comprising the steps of:

holding management information for managing the storage device, area assignment information for managing an area assignment state of the storage device, and history information for managing a history on area assuring and release;

receiving an assignment request for temporarily using an area of the storage device in association with designation of an area size and a using period for the requested area;

determining whether or not a requested an area having the requested area size can be assigned for the requested using

period by referring to information calculated from the held
history information; and

assigning an area with a designated having the requested size at a designated for the requested using period to a request source if the area can be assigned as a result of the determination.

13. (Currently amended) The area management method according to Claim 12, further comprising the steps of:

obtaining transition of a used amount of a storage calculating the size of a constantly-assigned area of the storage device previously requested, based on the history information referenced in the determining step; and

determining whether or not the designated requested area can be assigned at the designated for the requested using period based on the transition of the used amount of the storage calculated size.

14. (Currently amended) An area management method in a storage management system for managing a storage device for storing data, the area management method comprising the steps of:

holding management information for managing the storage device, area assignment information for managing an area assignment state of the storage device, and history information for managing a history on area assuring and release;

receiving an assignment request for temporarily using an area of the storage device in association with designation of an area size and a using period for the requested area;

determining whether or not a requested an area having the requested area size can be assigned for the requested using period by referring to information calculated from the held history information;

assigning an area with a designated having the requested area size at a designated for the requested using period to a request source if the area can be assigned as a result of the determination;

monitoring the using period of the assigned area after assigning a temporarily used area in the storage management system; and

monitoring step indicates that use of the assigned area is greater than it is over the using period as result of the monitoring.

- 15. (Currently amended) The area management method according to Claim 14, wherein in order to calculate the excess of an area use charge, the storage management system comprises an account table for managing a user name and a using period of the storage device, and a charge table for registering at least [[of]] an excess for temporary assignment on the storage device.
- 16. (Original) A program having a function for executing the method according to Claim 1.
- 17. (Currently amended) A storage management system for managing a storage device for storing data in response to a request from an application, the storage management system comprising:

a main memory for holding management information for managing the storage device, area assignment information for managing an area assignment state of the storage device, and history information for managing a history [[on]] of area assuring and release; and

processing means for assigning an area of the storage device to the application in accordance with the management information and the area assignment information,

the processing means comprising:

assignment request for temporarily using an area of the storage device in association with designation of an area size and a using period, calculating the size of a constantly-assigned area of the storage device previously requested, obtaining transition of a used amount of a storage by referring to the history information upon receiving an assignment request for temporarily using an area in association with designation of an area size and a using period;

of the constantly-assigned area and on the designated area size, whether or not there is sufficient storage device capacity for the constantly-assigned area and for the [[a]] requested area of the storage device requested for temporary use, can be assigned at for the using period which is requested for the assignment request based on the transition of the used amount of the storage; and

assigning means for assigning [[a]] the area size and [[a]] the using period designated by the request, and an area of the storage device having the area size, when the area of the storage device can be assigned as a result of the determination.

- 18. (Original) The storage management system according to Claim 17, wherein the main memory further holds a table of a temporarily-assigned area list which stores a user name to which the area is assigned, an area name, an assignment size, and a using period.
- 19. (Currently amended) The storage management system according to Claim 18, wherein the processing means further comprises means for monitoring whether or not the assigned using period has expired, passes by referring to the table of the temporarily-assigned area list, and returns a result of the monitoring by the monitoring means to a console terminal.
- 20. (Currently amended) The storage management system according to Claim 19, wherein the main memory further stores an account table for managing a user name and a using period of the storage device, and a charge table for registering at

least an excess [[for]] of use of an area by temporary assignment on the storage device, and

wherein the processing means further comprises calculating means for calculating an excess of an area use charge by referring to the account table and the charge table.